	U	1	Document ID	Issue Date	Pages
1	☒	☐	US 20030076448 A1	20030424	29
2	☒	☐	US 20030065260 A1	20030403	
3	☒	☐	US 20030063796 A1	20030403	
4	☒	☐	US 20030063781 A1	20030403	
5	☒	☐	US 20030063780 A1	20030403	
6	☒	☐	US 20030059106 A1	20030327	
7	☒	☐	US 20030059090 A1	20030327	
8	☒	☐	US 20030055799 A1	20030320	
9	☒	☐	US 20030055610 A1	20030320	
10	☒	☐	US 20030054346 A1	20030320	
11	☒	☐	US 20030028327 A1	20030206	
12	☒	☐	US 20030018928 A1	20030123	
13	☒	☐	US 20030018592 A1	20030123	
14	☒	☐	US 20030014692 A1	20030116	
15	☒	☐	US 20030009333 A1	20030109	
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17	☒	☐	US 20020186875 A1	20021212	

	Title	Current OR	Current XRef
1	Identification of replay segments	348/589	
2	Identification and quantification of needle and seed displacement departures from treatment plan	600/427	
3	System and method of face recognition through 1/2 faces	382/159	
4	Face recognition from a temporal sequence of face images	382/118	
5	System and method of face recognition using proportions of learned model	382/118	
6	Computer vision system and method employing hierarchical object classification scheme	382/158	382/228
7	System for cotton trash measurement	382/110	
8	Self-organizing data driven learning hardware with local interconnections	706/27	
9	Signal processing technique	702/194	
10	Methods for evaluating oligonucleotide probe sequences	435/6	702/20
11	Systems and methods for monitoring behavior informatics	702/19	382/128; 702/20
12	Real-time spatio-temporal coherence estimation for autonomous mode identification and invariance tracking	714/25	
13	Fuzzy inference network for classification of high-dimensional data	706/8	
14	Exception analysis for multimissions	714/25	
15	Voice print system and method	704/246	
16	Systems and methods for monitoring behavior informatics	702/19	705/2
17	Computer methods for image pattern recognition in organic material	382/133	382/157; 382/224

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1		Pan, Hao et al.	☐	☐	☐	☐	☐	☐	☐
2		Cheng, Gang et al.	☐	☐	☐	☐	☐	☐	☐
3		Gutta, Srinivas et al.	☐	☐	☐	☐	☐	☐	☐
4		Philomin, Vasanth et al.	☐	☐	☐	☐	☐	☐	☐
5		Gutta, Srinivas et al.	☐	☐	☐	☐	☐	☐	☐
6		Gutta, Srinivas	☐	☐	☐	☐	☐	☐	☐
7		Zhang, Yupeng et al.	☐	☐	☐	☐	☐	☐	☐
8		Starzyk, Janusz A.	☐	☐	☐	☐	☐	☐	☐
9		Webber, Christopher J ST C	☐	☐	☐	☐	☐	☐	☐
10		Shannon, Karen W. et al.	☐	☐	☐	☐	☐	☐	☐
11		Brunner, Daniela et al.	☐	☐	☐	☐	☐	☐	☐
12		James, Mark L. et al.	☐	☐	☐	☐	☐	☐	☐
13		Srinivasa, Narayan et al.	☐	☐	☐	☐	☐	☐	☐
14		James, Mark L. et al.	☐	☐	☐	☐	☐	☐	☐
15		Sharma, Manish et al.	☐	☐	☐	☐	☐	☐	☐
16		Brunner, Daniela et al.	☐	☐	☐	☐	☐	☐	☐
17		Burmer, Glenna C. et al.	☐	☐	☐	☐	☐	☐	☐

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19	☒	☐	US 20020165839 A1	20021107	
20	☒	☐	US 20020165838 A1	20021107	
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22	☒	☐	US 20020161731 A1	20021031	
23	☒	☐	US 20020159642 A1	20021031	
24	☒	☐	US 20020159641 A1	20021031	
25	☒	☐	US 20020159627 A1	20021031	
26	☒	☐	US 20020151992 A1	20021017	
27	☒	☐	US 20020150044 A1	20021017	
28	☒	☐	US 20020146160 A1	20021010	
29	☒	☐	US 20020138457 A1	20020926	
30	☒	☐	US 20020137993 A1	20020926	
31	☒	☐	US 20020135618 A1	20020926	
32	☒	☐	US 20020107638 A1	20020808	

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18	Method for the quantification of human alertness	600/544	
19	Segmentation and construction of segmentation classifiers	706/20	
20	Performance analysis of distributed applications using automatic classification of communication inefficiencies	706/20	
21	Automatic algorithm generation	382/159	382/190; 382/224
22	Artificial intelligence trending system	706/20	706/45; 707/7
23	Feature selection and feature set construction	382/225	
24	Directed dynamic data analysis	382/219	
25	Object finder for photographic images	382/154	
26	Media recording device with packet data interface	700/83	700/17; 700/18; 700/86; 700/87
27	Dynamic network resource allocation using multimedia content features and traffic features	370/229	370/235
28	Method and apparatus for generating two-dimensional images of cervical tissue from three-dimensional hyperspectral cubes	382/131	382/154; 382/224; 382/232
29	Approximate fitness functions	706/26	706/15
30	Spectrum processing and processor	600/310	600/476
31	System and method for multi-modal focus detection, referential ambiguity resolution and mood classification using multi-modal input	345/767	
32	Space weather prediction system and method	702/3	

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
18		Levendowski, Daniel J. et al.	☐	☐	☐	☐	☐	☐	☐
19		Taylor, Kevin M. et al.	☐	☐	☐	☐	☐	☐	☐
20		Vetter, Jeffrey S.	☐	☐	☐	☐	☐	☐	☐
21		Kuhner, Mark B. et al.	☐	☐	☐	☐	☐	☐	☐
22		Tayebnejad, Mohammad Reza et al.	☐	☐	☐	☐	☐	☐	☐
23		Whitney, Paul D.	☐	☐	☐	☐	☐	☐	☐
24		Whitney, Paul D. et al.	☐	☐	☐	☐	☐	☐	☐
25		Schneiderman, Henry et al.	☐	☐	☐	☐	☐	☐	☐
26		Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐
27		Wu, Min et al.	☐	☐	☐	☐	☐	☐	☐
28		Parker, Mary F. et al.	☐	☐	☐	☐	☐	☐	☐
29		Jin, Yaochu et al.	☐	☐	☐	☐	☐	☐	☐
30		Pickard, David	☐	☐	☐	☐	☐	☐	☐
31		Maes, Stephane Herman et al.	☐	☐	☐	☐	☐	☐	☐
32		Intriligator, Devrie S. et al.	☐	☐	☐	☐	☐	☐	☐

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33	☒	☐	US 20020085741 A1	20020704	
34	☒	☐	US 20020065466 A1	20020530	
35	☒	☐	US 20020054694 A1	20020509	
36	☒	☐	US 20020052699 A1	20020502	
37	☒	☐	US 20020038294 A1	20020328	
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40	☒	☐	US 20020028021 A1	20020307	
41	☒	☐	US 20020016781 A1	20020207	
42	☒	☐	US 20010044719 A1	20011122	
43	☒	☐	US 20010037324 A1	20011101	

	Title	Current OR	Current XRef
33	Signal separation method, signal processing apparatus, image processing apparatus, medical image processing apparatus and storage medium for restoring multidimensional signals from observed data in which multiple signals are mixed	382/118	
34	Method and apparatus for high-resolution detection and characterization of medical pathologies	600/447	
35	METHOD AND APPARATUS FOR ANALYZING AN IMAGE TO DIRECT AND IDENTIFY PATTERNS	382/111	382/156
36	Paper web breakage prediction using bootstrap aggregation of classification and regression trees	702/34	
37	Apparatus and method for detecting or recognizing pattern by employing a plurality of feature detecting elements	706/20	
38	System and method for paper web time-to-break prediction	702/182	
39	Multi-neural net imaging apparatus and method	382/156	382/224
40	METHODS AND APPARATUSES FOR VIDEO SEGMENTATION, CLASSIFICATION, AND RETRIEVAL USING IMAGE CLASS STATISTICAL MODELS	382/224	
41	Multi-kernel neural network concurrent learning, monitoring, and forecasting system	706/14	
42	Method and system for recognizing, indexing, and searching acoustic signals	704/245	
43	Multilevel taxonomy based on features derived from training documents classification using fisher values as discrimination values	707/1	

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
33		Shimizu, Junya	☐	☐	☐	☐	☐	☐	☐
34		Rather, John D. G. et al.	☐	☐	☐	☐	☐	☐	☐
35		VACHTSEVANOS, GEORGE J. et al.	☐	☐	☐	☐	☐	☐	☐
36		Chen, Yu-To et al.	☐	☐	☐	☐	☐	☐	☐
37		Matsugu, Masakazu	☐	☐	☐	☐	☐	☐	☐
38		Chen, Yu-To et al.	☐	☐	☐	☐	☐	☐	☐
39		Kasdan, Harvey L. et al.	☐	☐	☐	☐	☐	☐	☐
40		FOOTE, JONATHAN T. et al.	☐	☐	☐	☐	☐	☐	☐
41		Jannarone, Robert J.	☐	☐	☐	☐	☐	☐	☐
42		Casey, Michael A.	☐	☐	☐	☐	☐	☐	☐
43		Agrawal, Rakesh et al.	☐	☐	☐	☐	☐	☐	☐

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45	☒	☐	US 20010023419 A1	20010920	
46	☒	☐	US 20010018654 A1	20010830	
47	☒	☐	US 20010018207 A1	20010830	
48	☒	☐	US 6553366 B1	20030422	
49	☒	☐	US 6546378 B1	20030408	
50	☒	☐	US 6542852 B2	20030401	
51	☒	☐	US 6539352 B1	20030325	
52	☒	☐	US 6539351 B1	20030325	
53	☒	☐	US 6535833 B1	20030318	
54	☒	☐	US 6526299 B2	20030225	
55	☒	☐	US 6522978 B1	20030218	
56	☒	☐	US 6519561 B1	20030211	

	Title	Current OR	Current XRef
44	Visualization and self-organization of multidimensional data through equalized orthogonal mapping	706/2	
45	METHOD FOR SELECTING MEDICAL AND BIOCHEMICAL DIAGNOSTIC TESTS USING NEURAL NETWORK-RELATED APPLICATIONS	706/15	
46	CONFIDENCE MEASURE SYSTEM USING A NEAR-MISS PATTERN	704/257	
47	DNA REGULATORY ELEMENT FOR THE EXPRESSION OF TRANSGENES IN NEURONS OF THE MOUSE FOREBRAIN	435/325	435/320.1; 435/366; 435/368; 536/23.1; 536/23.5; 536/24.1
48	Analytic logical data model	707/2	707/100; 707/101; 707/3; 707/4; 707/6
49	Signal interpretation engine	706/12	382/159; 706/20
50	System and method for paper web time-to-break prediction	702/182	73/865.8
51	Subword-based speaker verification with multiple-classifier score fusion weight and threshold adaptation	704/249	704/250
52	High dimensional acoustic modeling via mixtures of compound gaussians with linear transforms	704/236	704/239; 704/240; 704/255
53	Method and apparatus for filtering measurements used in a generalized positioning system	702/150	702/152
54	Spectrum processing and processor	600/310	600/322; 600/476
55	Paper web breakage prediction using principal components analysis and classification and regression trees	702/35	702/182; 73/865.8
56	Model adaptation of neural tree networks and other fused models for speaker verification	704/232	704/250

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
44		Pao, Yoh-Han et al.	☐	☐	☐	☐	☐	☐	☐
45		LAPOINTE, JEROME et al.	☐	☐	☐	☐	☐	☐	☐
46		HON, HSIAO-WUEN et al.	☐	☐	☐	☐	☐	☐	☐
47		KANDEL, ERIC R. et al.	☐	☐	☐	☐	☐	☐	☐
48		Miller, Timothy Edward et al.	☐	☐	☐	☐	☐	☐	☐
49		Cook, Daniel Reed	☐	☐	☐	☐	☐	☐	☐
50		Chen, Yu-To et al.	☐	☐	☐	☐	☐	☐	☐
51		Sharma, Manish et al.	☐	☐	☐	☐	☐	☐	☐
52		Chen, Scott Shaobing et al.	☐	☐	☐	☐	☐	☐	☐
53		Syrjarinne, Jari	☐	☐	☐	☐	☐	☐	☐
54		Pickard, David	☐	☐	☐	☐	☐	☐	☐
55		Chen, Yu-To et al.	☐	☐	☐	☐	☐	☐	☐
56		Farrell, Kevin et al.	☐	☐	☐	☐	☐	☐	☐

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57	☒	☐	US 6519534 B2	20030211	
58	☒	☐	US 6509190 B2	20030121	
59	☒	☐	US 6498993 B1	20021224	
60	☒	☐	US 6496813 B1	20021217	
61	☒	☐	US 6466929 B1	20021015	
62	☒	☐	US 6466877 B1	20021015	
63	☒	☐	US 6463438 B1	20021008	
64	☒	☐	US 6463328 B1	20021008	
65	☒	☐	US 6459955 B1	20021001	
66	☒	☐	US 6456697 B1	20020924	

	Title	Current OR	Current XRef
57	Paper web breakage prediction using bootstrap aggregation of classification and regression trees	702/34	702/182; 73/865.8
58	DNA regulatory element for the expression of transgenes in neurons of the mouse forebrain	435/354	435/325; 435/352; 536/23.1; 536/23.5; 536/24.1
59	Paper web breakage prediction using bootstrap aggregation of classification and regression trees	702/35	73/865.8
60	Classifying apparatus using a combination of statistical methods and neuronal networks, designed in particular for odour recognition	706/20	700/48; 702/22; 702/27
61	System for discovering implicit relationships in data and a method of using the same	706/48	706/61
62	Paper web breakage prediction using principal components analysis and classification and regression trees	702/35	73/865.8
63	Neural network for cell image analysis for identification of abnormal cells	1/1	
64	Adaptive brain stimulation method and system	607/45	
65	Home cleaning robot	700/245	318/568.11; 318/568.12; 318/568.16; 318/587; 342/418; 342/457; 700/247; 700/256; 700/258; 700/259
66	Device and method of channel effect compensation for telephone speech recognition	379/88.01	379/201.01; 379/406.01; 379/406.1; 379/88.03; 379/88.07

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
57		Chen, Yu-To et al.	☐	☐	☐	☐	☐	☐	☐
58		Kandel, Eric R. et al.	☐	☐	☐	☐	☐	☐	☐
59		Chen, Yu-To et al.	☐	☐	☐	☐	☐	☐	☐
60		Labreche, Said et al.	☐	☐	☐	☐	☐	☐	☐
61		Brown, Steven D. et al.	☐	☐	☐	☐	☐	☐	☐
62		Chen, Yu-To et al.	☐	☐	☐	☐	☐	☐	☐
63		Veltri, Robert W. et al.	☐	☐	☐	☐	☐	☐	☐
64		John, Michael Sasha	☐	☐	☐	☐	☐	☐	☐
65		Bartsch, Eric Richard et al.	☐	☐	☐	☐	☐	☐	☐
66		Chang, Sen-Chia et al.	☐	☐	☐	☐	☐	☐	☐

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67	☒	☐	US 6418424 B1	20020709	
68	☒	☐	US 6418412 B1	20020709	
69	☒	☐	US 6405140 B1	20020611	
70	☒	☐	US 6404925 B1	20020611	
71	☒	☐	US 6400996 B1	20020604	
72	☒	☐	US 6386706 B1	20020514	
73	☒	☐	US 6385474 B1	20020507	

	Title	Current OR	Current XRef
67	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	706/21	434/178; 706/52
68	Quantization using frequency and mean compensated frequency input data for robust speech recognition	704/256	704/243
69	System and method for paper web time-break prediction	702/35	73/865.8
70	Methods and apparatuses for segmenting an audio-visual recording using image similarity searching and audio speaker recognition	382/224	348/480; 348/484; 358/403; 382/159; 382/173; 382/190; 382/197; 382/209; 382/225; 382/227; 382/276; 382/305; 704/239; 704/243; 704/245; 707/1; 707/3
71	Adaptive pattern recognition based control system and method	700/83	345/810; 345/840; 345/841; 370/218; 370/355; 700/17; 700/24; 700/25; 700/86; 700/87; 709/102; 709/223; 709/227; 709/318
72	Visual function testing with virtual retinal display	351/237	
73	Method and apparatus for high-resolution detection and characterization of medical pathologies	600/407	128/920; 128/924; 128/925; 600/437; 600/438; 600/442; 600/473; 600/476

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
67		Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐
68		Asghar, Safdar M. et al.	☐	☐	☐	☐	☐	☐	☐
69		Chen, Yu-To et al.	☐	☐	☐	☐	☐	☐	☐
70		Foote, Jonathan T. et al.	☐	☐	☐	☐	☐	☐	☐
71		Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐
72		McClure, Richard J. et al.	☐	☐	☐	☐	☐	☐	☐
73		Rather, John D. G. et al.	☐	☐	☐	☐	☐	☐	☐

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77	☒	☐	US 6353814 B1	20020305	
78	☒	☐	US 6351740 B1	20020226	
79	☒	☐	US 6347297 B1	20020212	
80	☒	☐	US 6343267 B1	20020129	
81	☒	☐	US 6324510 B1	20011127	
82	☒	☐	US 6272434 B1	20010807	
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84	☒	☐	US 6263309 B1	20010717	
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	Title	Current OR	Current XRef
74	Open loop adaptive access control of ATM networks using a neural network	370/230	370/395.2
75	Space weather prediction system and method	702/3	
76	Statistically qualified neuro-analytic failure detection method and system	706/15	
77	Developmental learning machine and method	706/12	700/258
78	Method and system for training dynamic nonlinear adaptive filters which have embedded memory	706/22	706/25
79	Matrix quantization with vector quantization error compensation and neural network postprocessing for robust speech recognition	704/243	704/232
80	Dimensionality reduction for speaker normalization and speaker and environment adaptation using eigenvoice techniques	704/222	
81	Method and apparatus of hierarchically organizing an acoustic model for speech recognition and adaptation of the model to unseen domains	704/256	704/232; 704/242; 704/254
82	Drilling system with downhole apparatus for determining parameters of interest and for adjusting drilling direction in response thereto	702/9	702/11
83	Codebook population using centroid pairs	704/243	704/222
84	Maximum likelihood method for finding an adapted speaker model in eigenvoice space	704/239	704/231; 704/236
85	Method for evaluating oligonucleotide probe sequences	435/6	422/67; 702/19; 702/20

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
74		Onyiagha, Godfrey	☐	☐	☐	☐	☐	☐	☐
75		Intriligator, Devrie S et al.	☐	☐	☐	☐	☐	☐	☐
76		Vilim, Richard B. et al.	☐	☐	☐	☐	☐	☐	☐
77		Weng, Juyang	☐	☐	☐	☐	☐	☐	☐
78		Rabinowitz, Matthew	☐	☐	☐	☐	☐	☐	☐
79		Asghar, Safdar M. et al.	☐	☐	☐	☐	☐	☐	☐
80		Kuhn, Roland et al.	☐	☐	☐	☐	☐	☐	☐
81		Waibel, Alex et al.	☐	☐	☐	☐	☐	☐	☐
82		Wisler, Macmillan H. et al.	☐	☐	☐	☐	☐	☐	☐
83		Ravishankar, Channasandra	☐	☐	☐	☐	☐	☐	☐
84		Nguyen, Patrick et al.	☐	☐	☐	☐	☐	☐	☐
85		Shannon, Karen W. et al.	☐	☐	☐	☐	☐	☐	☐

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86	☒	☐	US 6236963 B1	20010522	
87	☒	☐	US 6233575 B1	20010515	
88	☒	☐	US 6226612 B1	20010501	
89	☒	☐	US 6226611 B1	20010501	
90	☒	☐	US 6219642 B1	20010417	
91	☒	☐	US 6219640 B1	20010417	
92	☒	☐	US 6217525 B1	20010417	
93	☒	☐	US 6216119 B1	20010410	
94	☒	☐	US 6212509 B1	20010403	
95	☒	☐	US 6189002 B1	20010213	
96	☒	☐	US 6171256 B1	20010109	

	Title	Current OR	Current XRef
86	Speaker normalization processor apparatus for generating frequency warping function, and speech recognition apparatus with said speaker normalization processor apparatus	704/241	704/234; 704/256
87	Multilevel taxonomy based on features derived from training documents classification using fisher values as discrimination values	707/6	706/12; 707/2
88	Method of evaluating an utterance in a speech recognition system	704/256	704/240; 704/242
89	Method and system for automatic text-independent grading of pronunciation for language instruction	704/246	434/185; 704/240
90	Quantization using frequency and mean compensated frequency input data for robust speech recognition	704/256	704/243
91	Methods and apparatus for audio-visual speaker recognition and utterance verification	704/246	704/231; 704/273
92	Reduced lead set device and method for detecting acute cardiac ischemic conditions	600/508	607/5
93	Multi-kernel neural network concurrent learning, monitoring, and forecasting system	706/26	382/103; 382/104; 706/25
94	Visualization and self-organization of multidimensional data through equalized orthogonal mapping	706/16	706/15; 706/22; 706/25
95	Process and system for retrieval of documents using context-relevant semantic profiles	707/1	706/15; 707/5
96	Method and apparatus for detecting a condition associated with acute cardiac ischemia	600/508	

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
86		Naito, Masaki et al.	☐	☐	☐	☐	☐	☐	☐
87		Agrawal, Rakesh et al.	☐	☐	☐	☐	☐	☐	☐
88		Srenger, Edward et al.	☐	☐	☐	☐	☐	☐	☐
89		Neumeyer, Leonardo et al.	☐	☐	☐	☐	☐	☐	☐
90		Asghar, Safdar M. et al.	☐	☐	☐	☐	☐	☐	☐
91		Basu, Sankar et al.	☐	☐	☐	☐	☐	☐	☐
92		Medema, Douglas K. et al.	☐	☐	☐	☐	☐	☐	☐
93		Jannarone, Robert J.	☐	☐	☐	☐	☐	☐	☐
94		Pao, Yoh-Han et al.	☐	☐	☐	☐	☐	☐	☐
95		Roitblat, Herbert L.	☐	☐	☐	☐	☐	☐	☐
96		Joo, Tae H. et al.	☐	☐	☐	☐	☐	☐	☐

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97	☒	☐	US 6157894 A	20001205	
98	☒	☐	US 6148099 A	20001114	
99	☒	☐	US 6135965 A	20001024	
100	☒	☐	US 6134537 A	20001017	
101	☒	☐	US 6134520 A	20001017	
102	☒	☐	US 6092058 A	20000718	
103	☒	☐	US 6092045 A	20000718	
104	☒	☐	US 6081750 A	20000627	
105	☒	☐	US 6081612 A	20000627	
106	☒	☐	US 6070136 A	20000530	
107	☒	☐	US 6067515 A	20000523	
108	☒	☐	US 6066163 A	20000523	

	Title	Current OR	Current XRef
97	Liquid gauging using sensor fusion and data fusion	702/54	702/141; 702/50; 702/55; 702/99; 73/290R; 73/292
98	Method and apparatus for incremental concurrent learning in automatic semiconductor wafer and liquid crystal display defect classification	382/149	382/145; 382/147; 382/155
99	Spectroscopic detection of cervical pre-cancer using radial basis function networks	600/476	128/925; 600/408
100	Visualization and self organization of multidimensional data through equalized orthogonal mapping	706/16	706/18; 706/25; 706/26
101	Split vector quantization using unequal subvectors	704/222	
102	Automatic aiding of human cognitive functions with computerized displays	706/10	600/554; 706/15; 706/16
103	Method and apparatus for speech recognition	704/254	704/256
104	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	700/17	345/520; 700/11; 700/56; 700/83; 700/86
105	Systems and methods for the multispectral imaging and characterization of skin tissue	382/128	382/248; 382/276
106	Matrix quantization with vector quantization error compensation for robust speech recognition	704/222	704/243; 704/251; 704/256
107	Split matrix quantization with split vector quantization error compensation and selective enhanced processing for robust speech recognition	704/243	704/222; 704/251; 704/256
108	Adaptive brain stimulation method and system	607/45	607/48; 607/62

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
97		Hess, Robert Alan et al.	☐	☐	☐	☐	☐	☐	☐
98		Lee, Shih-Jong J. et al.	☐	☐	☐	☐	☐	☐	☐
99		Tumer, Kagan et al.	☐	☐	☐	☐	☐	☐	☐
100		Pao, Yoh-Han et al.	☐	☐	☐	☐	☐	☐	☐
101		Ravishankar, Channasandra	☐	☐	☐	☐	☐	☐	☐
102		Smyth, Christopher C.	☐	☐	☐	☐	☐	☐	☐
103		Stubley, Peter R. et al.	☐	☐	☐	☐	☐	☐	☐
104		Hoffberg, Steven Mark et al.	☐	☐	☐	☐	☐	☐	☐
105		Gutkowicz-Krusin, Dina et al.	☐	☐	☐	☐	☐	☐	☐
106		Cong, Lin et al.	☐	☐	☐	☐	☐	☐	☐
107		Cong, Lin et al.	☐	☐	☐	☐	☐	☐	☐
108		John, Michael Sasha	☐	☐	☐	☐	☐	☐	☐

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109	☒	☐	US 6055498 A	20000425	
110	☒	☐	US 6044343 A	20000328	
111	☒	☐	US 6038337 A	20000314	
112	☒	☐	US 6035274 A	20000307	
113	☒	☐	US 6035246 A	20000307	
114	☒	☐	US 6032116 A	20000229	
115	☒	☐	US 6021387 A	20000201	
116	☒	☐	US 6009391 A	19991228	
117	☒	☐	US 6006175 A	19991221	
118	☒	☐	US 6003003 A	19991214	
119	☒	☐	US 5991028 A	19991123	
120	☒	☐	US 5987444 A	19991116	
121	☒	☐	US 5963929 A	19991005	
122	☒	☐	US 5950157 A	19990907	

	Title	Current OR	Current XRef
109	Method and apparatus for automatic text-independent grading of pronunciation for language instruction	704/246	434/185; 704/240
110	Adaptive speech recognition with selective input data to a speech classifier	704/236	704/222; 704/243; 704/256
111	Method and apparatus for object recognition	382/156	382/155; 382/159; 382/190
112	Strain-sensing goniometers, systems and recognition algorithms	704/270	704/271; 704/272
113	Method for identifying known materials within a mixture of unknowns	700/266	250/339.05; 250/339.11; 250/339.12; 356/320; 422/82.05
114	Distance measure in a speech recognition system for speech recognition using frequency shifting factors to compensate for input signal frequency shifts	704/238	
115	Speech recognition apparatus for consumer electronic applications	704/232	704/240; 704/248; 704/259
116	Line spectral frequencies and energy features in a robust signal recognition system	704/243	704/222; 704/236; 704/238
117	Methods and apparatus for non-acoustic speech characterization and recognition	704/208	704/205; 704/206; 704/207
118	Speech recognition system having a quantizer using a single robust codebook designed at multiple signal to noise ratios	704/243	704/256
119	Spectral bio-imaging methods for cell classification	356/456	382/133
120	Robust neutral systems	706/25	706/14; 706/15; 706/23
121	Recursive neural filters	706/22	706/30
122	Method for establishing handset-dependent normalizing models for speaker recognition	704/234	704/250

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
109		Neumeyer, Leonardo et al.	☐	☐	☐	☐	☐	☐	☐
110		Cong, Lin et al.	☐	☐	☐	☐	☐	☐	☐
111		Lawrence, Stephen Robert et al.	☐	☐	☐	☐	☐	☐	☐
112		Kramer, James F. et al.	☐	☐	☐	☐	☐	☐	☐
113		Wagner, John S.	☐	☐	☐	☐	☐	☐	☐
114		Asghar, Safdar M. et al.	☐	☐	☐	☐	☐	☐	☐
115		Mozer, Forrest S. et al.	☐	☐	☐	☐	☐	☐	☐
116		Asghar, Safdar M. et al.	☐	☐	☐	☐	☐	☐	☐
117		Holzrichter, John F.	☐	☐	☐	☐	☐	☐	☐
118		Asghar, Safdar M. et al.	☐	☐	☐	☐	☐	☐	☐
119		Cabib, Dario et al.	☐	☐	☐	☐	☐	☐	☐
120		Lo, James Ting-Ho	☐	☐	☐	☐	☐	☐	☐
121		Lo, James Ting-Ho	☐	☐	☐	☐	☐	☐	☐
122		Heck, Larry P. et al.	☐	☐	☐	☐	☐	☐	☐

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126	☒	☐	US 5912721 A	19990615	
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128	☒	☐	US 5884261 A	19990316	
129	☒	☐	US 5876334 A	19990302	
130	☒	☐	US 5875108 A	19990223	
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132	☒	☐	US 5862519 A	19990119	
133	☒	☐	US RE36041 E	19990112	
134	☒	☐	US 5850470 A	19981215	
135	☒	☐	US 5842194 A	19981124	
136	☒	☐	US 5835902 A	19981110	
137	☒	☐	US 5835901 A	19981110	

	Title	Current OR	Current XRef
123	Discriminant neural networks	706/25	706/16
124	System for identifying known materials within a mixture of unknowns	702/22	250/339.12; 250/373; 356/320; 422/82.05
125	System and method for classifying a speech signal	704/232	704/234; 704/256
126	Gaze detection apparatus and its method as well as information display apparatus	351/210	351/209; 351/246
127	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	382/209	
128	Method and apparatus for tone-sensitive acoustic modeling	704/255	704/207; 704/256
129	Lie detector system using reaction time	600/300	
130	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	700/17	382/181; 382/190; 700/83
131	Method and system for automatic classification of video images	382/224	382/165
132	Blind clustering of data with application to speech processing systems	704/231	704/243; 704/245; 704/246; 704/247
133	Face recognition system	382/118	382/201; 382/204
134	Neural network for locating and recognizing a deformable object	382/157	382/116; 382/117; 382/118; 382/159; 706/20; 706/25
135	Method of recognizing images of faces or general images using fuzzy combination of multiple resolutions	706/52	382/224; 706/2
136	Concurrent learning and performance information processing system	706/26	706/25
137	Perceptive system including a neural network	706/19	706/16; 706/25; 706/31

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
123		Tufts, Donald W. et al.	☐	☐	☐	☐	☐	☐	☐
124		Wagner, John S.	☐	☐	☐	☐	☐	☐	☐
125		Kundu, Amlan	☐	☐	☐	☐	☐	☐	☐
126		Yamaguchi, Osamu et al.	☐	☐	☐	☐	☐	☐	☐
127		Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐
128		de Souza, Peter V. et al.	☐	☐	☐	☐	☐	☐	☐
129		Levy, George S.	☐	☐	☐	☐	☐	☐	☐
130		Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐
131		Normile, James et al.	☐	☐	☐	☐	☐	☐	☐
132		Sharma, Manish et al.	☐	☐	☐	☐	☐	☐	☐
133		Turk, Matthew et al.	☐	☐	☐	☐	☐	☐	☐
134		Kung, Sun-Yuan et al.	☐	☐	☐	☐	☐	☐	☐
135		Arbuckle, Thomas D.	☐	☐	☐	☐	☐	☐	☐
136		Jannarone, Robert J.	☐	☐	☐	☐	☐	☐	☐
137		Duvoisin, III, Herbert et al.	☐	☐	☐	☐	☐	☐	☐

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138	☒	☐	US 5825936 A	19981020	
139	☒	☐	US 5813406 A	19980929	
140	☒	☐	US 5812992 A	19980922	
141	☒	☐	US 5812974 A	19980922	
142	☒	☐	US 5812068 A	19980922	
143	☒	☐	US 5805771 A	19980908	
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146	☒	☐	US 5790758 A	19980804	
147	☒	☐	US 5790754 A	19980804	
148	☒	☐	US 5768477 A	19980616	

	Title	Current OR	Current XRef
138	Image analyzing device using adaptive criteria	382/261	382/130; 382/131; 382/132
139	Strain-sensing goniometers, systems and recognition algorithms	600/595	
140	Method and system for training a neural network with adaptive weight updating and adaptive pruning in principal component space	706/25	706/15; 706/16; 706/21
141	Speech recognition using middle-to-middle context hidden markov models	704/256	
142	Drilling system with downhole apparatus for determining parameters of interest and for adjusting drilling direction in response thereto	340/855.5	175/40; 175/45; 340/853.1; 340/855.6; 340/856.3; 73/152.02; 73/152.03; 73/152.05; 73/152.46
143	Automatic language identification method and system	704/232	704/231; 704/255; 704/256; 704/257
144	Self-learning speaker adaptation based on spectral bias source decomposition, using very short calibration speech	704/244	704/240; 704/242; 704/254
145	Speech pattern recognition using pattern recognizers and classifiers	704/232	704/239
146	Neural network architecture for gaussian components of a mixture density function	706/33	706/20; 706/31
147	Speech recognition apparatus for consumer electronic applications	704/232	
148	Radio direction finding system for narrowband multiple signals	706/24	706/10; 706/16; 706/25

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
138		Clarke, Laurence P. et al.	☐	☐	☐	☐	☐	☐	☐
139		Kramer, James F. et al.	☐	☐	☐	☐	☐	☐	☐
140		de Vries, Aalbert	☐	☐	☐	☐	☐	☐	☐
141		Hemphill, Charles T. et al.	☐	☐	☐	☐	☐	☐	☐
142		Wisler, MacMillan M. et al.	☐	☐	☐	☐	☐	☐	☐
143		Muthusamy, Yeshwant K. et al.	☐	☐	☐	☐	☐	☐	☐
144		Zhao, Yunxin	☐	☐	☐	☐	☐	☐	☐
145		Linggard, Robert et al.	☐	☐	☐	☐	☐	☐	☐
146		Streit, Roy L.	☐	☐	☐	☐	☐	☐	☐
147		Mozer, Forrest S. et al.	☐	☐	☐	☐	☐	☐	☐
148		Johnson, Richard L. et al.	☐	☐	☐	☐	☐	☐	☐

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151	☒	☐	US 5724487 A	19980303	
152	☒	☐	US 5715367 A	19980203	
153	☒	☐	US 5694474 A	19971202	
154	☒	☐	US 5687287 A	19971111	
155	☒	☐	US 5687082 A	19971111	
156	☒	☐	US 5675665 A	19971007	
157	☒	☐	US 5666157 A	19970909	
158	☒	☐	US 5649065 A	19970715	
159	☒	☐	US 5649061 A	19970715	

	Title	Current OR	Current XRef
149	Signal pattern recognition apparatus comprising parameter training controller for training feature conversion parameters and discriminant functions	382/159	382/190; 382/224; 704/231; 704/240; 706/20
150	Neurocognitive adaptive computer-aided training method and system	600/544	434/258
151	Neural network for maximum likelihood classification with supervised and unsupervised training capability	706/25	706/27; 706/31; 706/41
152	Apparatuses and methods for developing and using models for speech recognition	704/254	704/244; 704/245; 704/249; 704/250
153	Adaptive filter for signal processing and method therefor	381/66	381/71.11; 381/92; 381/94.1; 708/322
154	Speaker verification method and apparatus using mixture decomposition discrimination	704/247	704/256
155	Methods and apparatus for performing combustion analysis in an internal combustion engine utilizing ignition voltage analysis	701/111	324/379; 701/102; 701/106; 702/33; 702/66; 73/117.3
156	System and method for word recognition using size and placement models	382/229	382/177; 382/187; 382/200; 382/203
157	Abnormality detection and surveillance system	348/152	348/150; 348/154; 348/155; 348/161
158	Optimal filtering by neural networks with range extenders and/or reducers	706/22	706/25; 706/30; 706/40; 706/41; 708/300
159	Device and method for estimating a mental decision	706/16	250/221; 351/210; 706/23

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
149		Watanabe, Hideyuki et al.	☐	☐	☐	☐	☐	☐	☐
150		Gevins, Alan et al.	☐	☐	☐	☐	☐	☐	☐
151		Streit, Roy L.	☐	☐	☐	☐	☐	☐	☐
152		Gillick, Laurence S. et al.	☐	☐	☐	☐	☐	☐	☐
153		Ngo, John-Thomas Calderon et al.	☐	☐	☐	☐	☐	☐	☐
154		Gandhi, Malan Bhatki et al.	☐	☐	☐	☐	☐	☐	☐
155		Rizzoni, Giorgio	☐	☐	☐	☐	☐	☐	☐
156		Lyon, Richard F.	☐	☐	☐	☐	☐	☐	☐
157		Aviv, David G.	☐	☐	☐	☐	☐	☐	☐
158		Lo, James Ting-Ho et al.	☐	☐	☐	☐	☐	☐	☐
159		Smyth, Christopher C.	☐	☐	☐	☐	☐	☐	☐

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161	☒	☐	US 5642431 A	19970624	
162	☒	☐	US 5636326 A	19970603	
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164	☒	☐	US 5634087 A	19970527	
165	☒	☐	US 5625749 A	19970429	
166	☒	☐	US 5625150 A	19970429	
167	☒	☐	US 5590242 A	19961231	
168	☒	☐	US 5579436 A	19961126	
169	☒	☐	US 5566092 A	19961015	

	Title	Current OR	Current XRef
160	System and method for automatic handwriting recognition with a writer-independent chirographic label alphabet	382/186	382/187; 382/228
161	Network-based system and method for detection of faces and the like	382/118	235/380; 348/77; 382/115
162	Method for operating an optimal weight pruning apparatus for designing artificial neural networks	706/25	
163	Continuous parameter hidden Markov model approach to automatic handwriting recognition	382/187	382/159; 382/160; 382/228; 704/200
164	Rapidly trainable neural tree network	706/25	376/159; 706/20; 706/27; 706/41
165	Segment-based apparatus and method for speech recognition by analyzing multiple speech unit frames and modeling both temporal and spatial correlation	704/254	704/237; 704/239; 704/240; 704/241; 704/242; 704/253; 704/255
166	Integrated acoustic leak detection sensor subsystem	73/649	376/249; 376/252; 702/51; 702/56; 73/40.5A; 73/52; 73/579; 73/587; 73/866.5
167	Signal bias removal for robust telephone speech recognition	704/245	704/222; 704/233
168	Recognition unit model training based on competing word and word string models	704/244	704/236; 704/256
169	Machine fault diagnostics system and method	702/185	700/159; 700/169; 700/174; 700/2; 706/904; 706/912

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
160		Bellegarda, Eveline Jeannine et al.	☐	☐	☐	☐	☐	☐	☐
161		Poggio, Tomaso et al.	☐	☐	☐	☐	☐	☐	☐
162		Stork, David G. et al.	☐	☐	☐	☐	☐	☐	☐
163		Bellegarda, Eveline J. et al.	☐	☐	☐	☐	☐	☐	☐
164		Mammone, Richard J. et al.	☐	☐	☐	☐	☐	☐	☐
165		Goldenthal, William D. et al.	☐	☐	☐	☐	☐	☐	☐
166		Greene, David A. et al.	☐	☐	☐	☐	☐	☐	☐
167		Juang, Biing-Hwang et al.	☐	☐	☐	☐	☐	☐	☐
168		Chou, Wu et al.	☐	☐	☐	☐	☐	☐	☐
169		Wang, Hsu-Pin et al.	☐	☐	☐	☐	☐	☐	☐

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170	☒	☐	US 5544257 A	19960806	
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	Title	Current OR	Current XRef
170	Continuous parameter hidden Markov model approach to automatic handwriting recognition	382/187	382/186; 382/190; 382/228
171	Integrated acoustic leak detection processing system	73/40.5A	376/252; 702/51; 706/10; 706/20; 73/587
172	Integrated acoustic leak detection beamforming system	376/252	376/216; 376/249; 376/255; 376/258; 376/405
173	Smart sensor system and method using a surface acoustic wave vapor sensor array and pattern recognition for selective trace organic vapor detection	702/27	340/632; 73/23.2
174	Hidden markov models for fault detection in dynamic systems	706/20	376/216; 706/911; 706/914
175	Neurocognitive adaptive computer interface method and system based on on-line measurement of the user's mental effort	600/544	128/925
176	Strain-sensing goniometers, systems and recognition algorithms	704/271	128/925; 600/595; 706/20
177	Time series association learning	704/232	
178	Optimal filtering by recurrent neural networks	708/303	706/22; 706/25
179	Method and apparatus for truth detection	600/544	
180	Radar apparatus using neural network for azimuth and elevation detection	706/24	342/350
181	Method and apparatus for pattern mapping system with self-reliability check	382/158	382/309; 706/20; 706/31
182	Method of edge detection in optical images using neural network classifier	382/156	382/199
183	Non-invasive human neurocognitive performance capability testing method and system	600/544	600/545

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
170		Bellegarda, Eveline J. et al.	☐	☐	☐	☐	☐	☐	☐
171		Greene, David A. et al.	☐	☐	☐	☐	☐	☐	☐
172		Greene, David A. et al.	☐	☐	☐	☐	☐	☐	☐
173		Rose-Pehrsson, Susan L. et al.	☐	☐	☐	☐	☐	☐	☐
174		Smyth, Padhraic J.	☐	☐	☐	☐	☐	☐	☐
175		Gevins, Alan S.	☐	☐	☐	☐	☐	☐	☐
176		Kramer, James F. et al.	☐	☐	☐	☐	☐	☐	☐
177		Papcun, George J.	☐	☐	☐	☐	☐	☐	☐
178		Lo, James T.	☐	☐	☐	☐	☐	☐	☐
179		Farwell, Lawrence A.	☐	☐	☐	☐	☐	☐	☐
180		Webb, Andrew R.	☐	☐	☐	☐	☐	☐	☐
181		Kramer, Mark A. et al.	☐	☐	☐	☐	☐	☐	☐
182		Aghajan, Hamid K. et al.	☐	☐	☐	☐	☐	☐	☐
183		Gevins, Alan S.	☐	☐	☐	☐	☐	☐	☐
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189	☒	☐	US 4736751 A	19880412	

	Title	Current OR	Current XRef
184	Strain-sensing goniometers, systems and recognition algorithms	338/210	128/925; 600/595
185	Face recognition system	382/118	382/201; 382/224; 725/10; 725/12
186	Multi-sensor explosive detection system using an articifical neural system	250/390.04	376/159; 706/20
187	Multi-sensor explosive detection system	376/159	250/358.1; 376/158; 376/161; 706/20; 706/933
188	Automatic determination of labels and Markov word models in a speech recognition system	704/256	
189	Brain wave source network location scanning method and system	600/545	600/544

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
184		Kramer, James F. et al.	☐	☐	☐	☐	☐	☐	☐
185		Turk, Matthew et al.	☐	☐	☐	☐	☐	☐	☐
186		Gozani, Tsahi et al.	☐	☐	☐	☐	☐	☐	☐
187		Gozani, Tsahi et al.	☐	☐	☐	☐	☐	☐	☐
188		Brown, Peter F. et al.	☐	☐	☐	☐	☐	☐	☐
189		Gevins, Alan S. et al.	☐	☐	☐	☐	☐	☐	☐

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